Sequence Appendix 1

Untitled Sequence # 2 -> 1-phase Translation

INA sequence 1983 b.p. TTCCATCTAACC ... ATGGTGGGCGCC linear

31/11

TTC CAT CTA ACC ACA CGT AAC GGA GAA CCA CAC ATG ATC GTC AGT AGA CAA GAG AAA GGG F H L T T R N G E P H M I V S R Q E K G 61/21 91/31 AAA AGT CTT TTG TTT AAA ACA GAG GAT GGC GTG AAC ATG TGC ACC CTC ATG GCC ATG GAC K S L L F K T E D G V N M C T L M A M D 151/51 CTT GGT GAA TTG TGT GAA GAC ACA ATC ACG TAC AAG TGT CCC CTT CTC AGG CAG AAT GAG LGELCEDTITYK 211/71 CCA GAA GAC ATA GAC TGC TGG TGC AAC TCC ACG TCC ACG TGG GTA ACC TAT GGG ACT TGT PEDIDC W C N S T S T W V T Y G T C 241/81 271/91 ACC ACC ACG GGA GAA CAT AGA AGA GAA AAA AGA TCA GTG GCA CTC GTT CCA CAT GTG GGA TTTGEERREERSV ALVPHV 301/101 331/111 ATC GGA CTC GAG ACG CGA ACT GAA ACA TGG ATG TCA TCA GAA GGG GCT TGG. AAA CAT GCC MGLETRTETWMSS.EGAWKHA 361/121 391/131 CAG AGA ATT GAA ATT TOG ATC CTG AGA CAT CCA GGC TTC ACC ATA ATG GCA GCA ATC CTG Q R I E I W I L R H P G F T I M A A I L 421/141 451/151 GCA TAC ACC ATA GGG ACG ACA CAT TTC CAG AGA GCA CTG ATT TTC ATC TTA CTG ACA GCT AYTIGTTHFQRALIFILLTA 511/171 GTC GCT CCT TCA ATG ACA ATG CGT TGC ATA GGA ATA TCA AAT AGA GAC TIT GTA GAA GGG V A P S M T M R C I G I S 541/181 571/191 GIT TCA GGA GGA AGC TGG GIT GAC ATA GTC TTA GAA CAT GGA AGC TGT GTG ACG ACG ATG V S G G S W V D I V L E H G S C V T T H 601/201 631/211 GCA AAA AAC AAA CCA ACA TTG GAT TTT GAA CTG ATA AAA ACA GAA GCC AAA CAG CCT GCC A K N K P T L D F E L I K T B A K Q P 691/231 ACC CTA AGG AAG TAC TOT ATA GAG GCA AAG CTA ACC AAC ACA ACA ACA GAA TCT CGT TGC TLRKYCIEAKLTN 721/241 751/251 CCA ACA CAA GGG GAA CCC AGC CTA AAT GAA GAG CAG GAT AAA AGG TTC GTC TGC AAA CAC PTQGBPSLNEBQDKRFVCKH 781/261 811/271 TCC ATG GTA GAC AGA GGA TGG GGA AAT GGA TGT GGA TTA TTT GGA AAG GGA GGC ATT GTG S M V D R G W G N G C G L P G R G G I V 871/291 ACC TOT GCT ATG TTC ACA TGC AAA AAG AAC ATG GAG GGA AAA GTT GTG CAG CCA GAA AAC T C A M F T C K K N M E G K V V Q P B N 901/301 931/311 TIG GAA TAC ACC ATT GIG GIA ACA CCC CAC TCA GGG GAA GAG CAT GCG GIC GGA AAT GAC L B Y T I V V T P H S G E E H A V G N D 961/321 991/331 ACA GGA AAA CAT GGC AAG GAA ATC AAA GTA ACA CCA CAG AGT TCC ATC ACA GAA GCA GAA T G K H G K E I K V T P Q S S I T E A E 1021/341 1051/351 THE ACA COT TAT GGC ACT GHC ACG ATG GAG TGC TCT CCG AGA ACA GGC CTC GAC TTC AAT LTGYGTVTMECSP RTGLDF'N 1081/361 1111/371 gag ate etc ctg cag ate gaa aat aaa gct tog ctg gtg cat agg caa tog tic cta B M V L L Q M E N K A W L V H R Q W F L 1141/381 1171/391 CAC CTG CCG TTA CCA TGG CTG CCC GGA GCC GAC ACA CAA GGG TCA AAT TGG ATA CAA AAA D L P L P W L P G A D T Q G S N W I Q R 1201/401 1231/411 gaa aca tig gic act tic aaa aat cct cat gog aag aaa cag gat git git tita gga VTFKNPHAKK O D A A T 1261/421 1291/431 TOO CAA GAA GGG GGC ATG CAC ACA GGA CTC ACA GGG GGC ACA GAA ATG CAA ATG TCA TCA S Q E G A M H T A L T G A T E I Q M S S

09/121587 09/121587 07/23/98

Untitled Sequence # 2 -> 1-phase Translation

	1/44		_							125	1/45								
GG?	AAC	TIZ	CTC	TTC	ACA	GGA	CAT	Call C	220	. 200	T/42	. ~~~	AGA						
G	N	L	L	P	T	G.	H	L	R	160	AUG	CIG	i AGA	ATG	GAC			CAG	CIC
138	1/46	1		_	•	•	••		v		R		R	M	D	ĸ	L	Q	L
AAA	CCA	ATG	TCA	TAC	TCT	ATC	TY2	ארים	~	141	1/47	1	GIT	·					
R	G	M	S	Y	s	M	c	T	-	AAL	111	. AAA	GIT	GIG	AAC	CAA	ATA	CCA	CAA
144	1/48	1	_	•	_	-4	•	T .	G	K	_		V	V	K	E	I	A	E
ACA	CAA	CAT	CCA	ACA	מידע	CZIED	700	.~~		147	1/49	1							
T	0	H	G.	T	ī	V	I	MJG.	GIG	CAG	TAT	GAA	GGG	CAC	GGC	TCT	CCA	TGT	AAA
	1/50		•	•	_	٧	•	R	V	¥	x	R	G	D	G	S	P	С	ĸ
ATC	CCT	Jalal	GAG	ልጥል	ATC	Cam		~~~		153	1/51	1_							
I	P	P	E	I	M	D	116	GAA	AAA	AGA	CAT	GIC	TTA	CCI	CCC	CIG	ATC	ACA	GTC
	1/52		_	•		•	L	E	K	K	н	V	L	G	R	L	I	T	V
			CTTC	202	CAA		~~~			159	1/53	1							
N	P	7	V	A-A	5	77.	GAT	AGC	CCA	GIC	AAC	ATA	GAA	CCA	CAA	CCT	CCA	TTC	GGA
	- 1/54:		•	T	B	K	D	S	P	V	N	I	K	A	B	P	P	P	G
) TYC	100						165	1/55	1							_
D	S	v	I	AIC	ATA	GGA	GTA	GAG	ccc	GGA	CAA	CIG	AAG	CTC	AAC	TGG	TTT	AAG	AAA
	1/56:	_	-	1	I	G	V	E	P	G	Q	L	K	L	N	W	P	ĸ	ĸ
			2000							171	1/57:	1							
G		S	AIC	GGC	CAA	ATG	TIT	CAG	YCY	ACA	ATG	AGG	œ	CCC	AAG	AGA	ATG	arr	الملك
	1/58:		1	G	Q	M	P	B	T	T.	M	R	G	A				A	I
										1771	L/591	l							_
110	GGI	CARC	ACA	GCC .	TGG	GAT	TIT	CGA	TCC	CTG	GGA	GGA	GIG	TIT	ACA	TCT	ATA	CCA '	222
	L/601		T	A	W	D	F	G	S	L	G	G	v	F	T			G.	K
100.	700									1831	./613	L .				_	_	_	
GCC	CIC	CAC	CAA	GIC	TTT	GGA	CCA	ATC	TAT	CCA	CCT	CCC	TTC	AGT	GGG	CTTC	מיות	TOC)
			Q	V	F	G	A	I	Y	G	A	λ	F	S				W	T T
	L/621									1891	/631			_	-	•	_	•••	_
ATG	AAA	ATC	CIC	ata	CCA	GTC	ATT	ATC	ACA	TGG	ATA	GGA	ATG	ТАА	מיצו	CCC.	200	200	
			L	I	G	V	I	I	T	W	I	G	M						
	L/641									1951	ICES	_			_		_	T	S
CIG	TCT	CIC	TCA	CTA	GIA	TIG	GTG	CCA	GIC	GTG	ACCG	CTG	TAT	TALES.	CCX	CHIM	3.000		
			S	L	V	L	V	G	v	v	T	L	Y						
	/661									-	_	_	-	_	.	•	M	V	G
GCC																			
A																			

_

10 20 30 4	0
ACMARAMOR CONTRACTOR C	
AGTAAATCCTGTGTGCTAATTGAGGTGCATTGGTCTGCA	A 40
ATCGAGTTGCTAGGCAATAAACACATTTGGATTAATTTT	08 <i>F</i>
ATCGTTCGTTGAGCGATTAGCAGAGAACTGACCAGAACA	T 120
GTCTGGTCGTAAAGCTCAGGGAAAAACCCTGGGCGTCAA	T 160
ATGGTACGACGAGGAGTTCGCTCCTTGTCAAACAAAATAA	A 200
210 220 230 24	
AACAAAAACAAAACAAATTGGAAACAGACCTGGACCTTC	240
${ t AAGAGGTGTTCAAGGATTTATCTTTTTCTTTTTGTTCAAC}$	280
ATTTTGACTGGAAAAAAGATCACAGCCCACCTAAAGAGGT	320
${ t TGTGGAAAATGCTGGACCCAAGACAAGGCTTGGCTGTTCT}$	360
AAGGAAAGTCAAGAGAGTGGTGGCCAGTTTGATGAGAGGA	400
410 420 430 44	
	O .
PTGTCCTCAAGGAAACGCCGTTCCCATGATGTTCTGACTG	440
rgcaattcctaattttgggaatgctgttgatgacgggtg	: 480
AATGAAGTTGTCGAATTTCCAGGGGAAGCTTTTGATGACC	520
ATCAACAACACGGACATTGCAGACGTTATCGTGATTCCCA	560
CCTCAAAAGGAGAGAACAGATGTTGGGTTCGGGCAATCGA	600
610 620 630 64	
<u></u>	0
CGTCGGCTACATGTGTGAGGACACTATCACGTACGAATGT	640
CTAAGCTTACCATGGGCAATGATCCAGAGGATGTGGATT	690
GCTGGTGTGACAACCAAGAAGTCTACGTCCAATATGGACG	720
TGCACGCGGACCAGGCATTCCAAGCGAAGCAGGAGATCC	760
STGTCGGTCCAAACACATGGGGAGAGTTCACTAGTGAATA	800
910 000	
84 - 10	U
AAAAGAGGCTTGGCTGGATTCAACGAAAGCCACACGATA	940
CTCATGAAAACTGAGAACTGGATCATAAGGAATCCTGGC	990
ATGCTTTCCTGGCGGCGGTACTTGGCTGGATGCTTGGCA	920
TAACAACGGTCAACGCGTGGTATTTACCATCCTCCTGCT	960
TTGGTCGCTCCGGCTTACAGTTTTAATTGTCTGGGAATG	1000
1010 1020	
1010 1020 1030 104 	10
GCAATCGTGACTTCATAGAAGGAGCCAGTGGGGCCACTT	1040
GGTGGACTTGGTGCTAGAAGGACAGCTGCTTGACAAT	1000
ATGGCAAACGACAAACCAACATTGGACGTCCGCATGATT	1120
ACATCGAAGCTAGCCAACTTGCTGAGGTCAGAAGTTACT	1160
CTATCATGCTTCAGTCACTGACATCTCGACGGTGGCTCG	1200
The state of the s	1200

### Time		· ugc z
GATAGTAGTATGTTGTGCAAACAAGGCTTCACTGACCGTG 1280 GGTGGGGCAACAGCGATTGTTCGGGCGAAGGAAGCATT 1320 TGACACATGTGCAAAATTCTCCTGCACCAGTAAAGCGATT 1360 GGGAGACAATCCAGCCAGAAAACATCAAAATTCT 1400 1410	1210 1220 1230 1240	
GATAGTAGTATGTTGTGCAAACAAGGCTTCACTGACCGTG 1280 GGTGGGGCAACAGCGATTGTTCGGGCGAAGGAAGCATT 1320 TGACACATGTGCAAAATTCTCCTGCACCAGTAAAGCGATT 1360 GGGAGACAATCCAGCCAGAAAACATCAAAATTCT 1400 1410	GTGCCCCACGACTGGAGAAGCCCACAACGAGAAGCCACGT 1240	
GGTGGGCAACGGATGTGCATTTTTCGGGAAGGAACCAT 1320 TGACACATGTGCAAAATTCTCTCGCACCACCAGTAAACGATT 1360 GGGAGAACAATCCAGCCAGAAAACATCAAATACAAAGTTG 1400 1410	GATAGTAGCTATGTGTGCAAACAAGGCTTCACTCACCCTC 1200	
TGACACATGTGCAAAATTCTCCTGCACCAGTAAAGCGATT 1360 GGGGAGACCATCCAGCCAGAAAACATCAAATACAAAGTTG 1400 1410 1420 1430 1440 SCATTTTGGCATGGAACCACCACTTCGGAAAACCATGG 1440 GGATTATCAGCGCAAGTTGGGGCGCTCCCAGGCGGCAAAG 1480 TTTACAGTACACCCAAGTCTCTCGGTAGCCCTCAAAC 1520 TTTACAGTACACCCAAGTCTCTCTCGGTAGCCCTCAAAC 1520 GAGTGACTACAGGAAACCACCACTTTACGTCATACCAAAC 1560 GAGTGACTACAGAAGCACTATTCTACGTCATAGCCCTCAAAC 1560 GAGTGACTCACACCAGAAGCGTTTTACGTCATAGCCCTG 1600 1610 1620 1630 1640 1610 1620 1630 1640 ACCTGCGTCTCCCCTGGAACGCTCTCCAGCACACCGTG 1680 GAGAAACAGAGAACTCCTCATGGAATTTGAACGGGCCACACCGTG 1680 GAGAAACAGGAACTCCTCATGGAATTTGAACGGGCCACC 1720 GCCACAAAAACACTCCGTTGTTGCTCTTGGGTCACAGGAAC 1760 GAGGCCTCCACTCATGGAATTTGAAGGGGCCAC 1720 GCACAAAAACAGTCCATTGTTGCTCTTGGGTCACAGGAAC 1760 GAGGCCTCCACTCATGCGATTTGAACGCCACCTGAAA 1840 TGTAGCTCAAGCTCATGATGTTAACATCAGCCACCTGAAA 1840 GTACTCAAGCTCATGAAAAATTCTCGTTCCATGAAACAC 1880 CCTATGGCATGATGAACAAAATTCTCGTTCCAGGAACACAT 1890 TCCGTGGGACACTGGTCACAGAAAATTCTCTTCCTCTGAACTC 1960 TCCTATCCTTGGGACACAAAAATTCTCGTTCATTGAACTC 2000 2010 2020 2030 2040 TTTCCCTTGCGACCTCAATGACATCACCCCCTTGGGGC 2040 GCTGGTGACAGTGAACACTGCACACAACACCCCCTTCGGACACATCC 2080 AACTCCTAACTCTAGAAGAACACCCCCCTTCGGACACAGCCC 2200 CCCACCATTGGCACAAAGCACCACCTTCTCTGCACCATCCC 2080 AACTCCTACTCTGAAGGGGAGACAACACCACCTTTCGACGACAACACCCCCCTTCGGACACAGCCCTTCTTCATTGCATTGCATTGCTCTTCCTTGCATTGCTCTTTGCTTTTGCTTTTTT	GGTGGGGCAACGGATGTGGATTTTTCGCGAACCGAACCG	
GGGGAGAACATCCAGCCAGAAAACATCAAATTCAAAGTTG 1400 1410 1420 1430 1440	TGACACATGTGCAAAATTCTCCTGCACCACTAAAGGGAAGCAT 1320	
1410 1420 1430 1440 GCATTTTGTGCATGGAACCACCACTTCGGAAAACCATGG 1440 GAATTATTCAGCGCAAGTTGGGGCGTCCCAGGGGGCAAGG 1480 TTTACAGTACACCCAAGTTTGCGTCATGCGTAGCCCTCAAAC 1520 TTGGTGGACTACAGAGCGTTTTACGTCATGGACCCAGG 1560 GAGTGGACTGAACCTGAAGCGTTTTACGTCATTGCCTCATGGACCTGGT 1600 1610 1620 1630 1640	GGGAGAACATCCAGCCAGAAACATCAAAAGCGATT 1360	
GRATTATTGGCATGGAACCACTCGGAAAACCATGG 1440 GAATTATTCAGCGCAAGTTGGGGCGCCCCAGCGGCGAAG 1480 TTTACAGTAACACCCAATGGCTCCTTGGTAGCCCTCAAAC 1520 TTGGTGACTACGAGCAAGTCACCTGGACTGTGAGCCAAG 1600 GAGTGGACCACCAAACCTGAACCTGTACCCTGT 1600 1610 1620 1630 1640 1610 1620 1630 1640 1610 1620 1630 1640 ACCTCGCTCTCCCCTGGACGTCCCTTGGACCACGGT 1680 ACCTCGCTCTCCCCTGAGCGTCCCTTGGACCACAGCGT 1680 GAGAAACAGAAACTCTCATGGAATTGAAGGGACCACAGCGT 1720 GCCACAAAACAGAACTCTCATGGAATTGAAGGGGCCAC 1720 GCCACAAAACAGCCTTGTGCCCTATGGACTCAGGAAA 1760 GAGGCCTCCATCATGGATTTGAACATCAGGGACACACGGTG 1680 GAGAAACAGAACTCTCTCATGGAATTGAAGGGGCCAC 1720 GCCACAAAACAGTCCGTTGCCAGGAGCCATCGTGGTGGA 1800 1810 1820 1830 1840 TGTAGCGGAAAATGGACAAACTGGCTTGAAAGCACACAGAAA 1840 GTACTCAAGCTCAGTGAATATTAACATCAGGCCACCTCAAAA 1880 CCTATGGGAAATGGAAAAAATTCTCGTTCGCGAAAAA 1820 TCCGGTGAAAATGGACAAACTGGCTCTGAAAAGCACAAT 1840 TCCTACTCTGGGGAAAAAAATTCCGTTCGCGAAAAA 1820 TCCGTGGACACTGAAAAAAATTCCGTTCGCGAAAAAA 1820 TCCTACTCTGGGGATGATGGCCCCTTGAAAAGACTCCAATGGCCCCACAAAAAAAA		
GAATTATTCAGCGCAAATTGGGGCGTCCCAGGCGGCAAAG 1480 TTTACAGTAACACCCAAATGCTCCTTCGGTAGCCCTCAAAC 1520 TTGGTGACTACGAAATGCTCCTTTAGGTCAGCCTCAAAC 1560 GAGTGACTGAACACTGAAGCGTTTTAGGTCATGACCAG 1560 GAGTGACTGAACACTGAAGCGTTTAGGTCATGACCAG 1560 1610 1620 1630 1640 1610 1620 1630 1640 ACCTGGCTCCCCTGGAGGAGTCTCATGAGCACAGCGTG 1680 GAGAAACAGGTCCCTTCATGGAATTTGAGGCACAGCGTG 1680 GAGAAACAGGAACTCCTCATGGAATTTGAAGGGGCGCAC 1720 GCCACAAAACAGTCCGTTGTGCTCTTGAGCCACAGCAG 1760 GAGGCCTCCATCATGGGTTGGCCAGGAGCCACAGCAGA 1800 1810 1820 1830 1840 THALLHALLHALLHALLHALLHALLHALLHALLHALLHAL		
GAATTATTCAGCGCAAATTGGGGCGTCCCAGGCGGCAAAG 1480 TTTACAGTAACACCCAAATGCTCCTTCGGTAGCCCTCAAAC 1520 TTGGTGACTACGAAATGCTCCTTTAGGTCAGCCTCAAAC 1560 GAGTGACTGAACACTGAAGCGTTTTAGGTCATGACCAG 1560 GAGTGACTGAACACTGAAGCGTTTAGGTCATGACCAG 1560 1610 1620 1630 1640 1610 1620 1630 1640 ACCTGGCTCCCCTGGAGGAGTCTCATGAGCACAGCGTG 1680 GAGAAACAGGTCCCTTCATGGAATTTGAGGCACAGCGTG 1680 GAGAAACAGGAACTCCTCATGGAATTTGAAGGGGCGCAC 1720 GCCACAAAACAGTCCGTTGTGCTCTTGAGCCACAGCAG 1760 GAGGCCTCCATCATGGGTTGGCCAGGAGCCACAGCAGA 1800 1810 1820 1830 1840 THALLHALLHALLHALLHALLHALLHALLHALLHALLHAL	GCATTTTTGTGCATGGAACCACCACTTCGGAAAACCATGG 1440	
TTTACAGTTACACCCAARGCTCCTTCCGTTAGCCCTCAAAC 1520 TTGGTGACTACCGAGAACTCGAACTGGACCTGTAGCCCAG 1560 GAGTGGACCACCAGAGACTCCACACTGGACCTGTAGCCCAG 1560 1610 1620 1630 1640 1610 1620 1630 1640 ACCTCGCTTCCCCTGGACGTCCCCTTCGAGCACAGCGTG 1680 GAGAAACAGAACTCCTCATGGACATGGACTCAGGAC 1720 GCCACAAAACAGTCCGTTAGGAATTTGAAGGGGCGCAC 1720 GCCACAAAACAGTCCGTTAGGTCATTGGACACAGCAG 1760 GAGGCCTCCATCATGCGTTGGTCCATTTGGTCCATAGGAAGA 1760 GAGGCCTCCATCATGCGTTGGCCCATCGTGGTGGA 1800 1810 1820 1830 1840 1810 1820 1830 1840 CTACTCAAGCTCAGTGATGTAACATCAGGCCACCTGAAA 1840 TGTAGGCTGAAAAACTGGTTAACATCAGGCCACAA 1880 CCTATGGGCATGATAGAAAAATTCTCGTTCGGAAAACAA 1920 TCCGGTGGACACTGGTCAGAAAAATTCCGTTCGAAAACACACCACAA 1800 CCTATGGCACTAGTAGAGAAAAATTCCGTTCCGAAAACTCGCTCTCAAAACACACCACTTGGACACACAC	GAATTATTCAGCGCAAGTTGGGGCGTCCCAGGCGGCAAAG 1480	
TTGGTGACTGGAGAAGTCACACTGGACTTTAGGCCAAG 1560 GAGTGGACTGAAGCGTTTACGTCATGACCGTG 1600 1610 1620 1630 1640	TTTACAGTAACACCCAATGCTCCTTCGGTAGCCCTCAAAC 1520	
GAGTGGACTGAACACTGAAGGGTTTTACGTCATGACCGTG 1600	TTGGTGACTACGGAGAAGTCACACTGGACTGTGAGCCAAG 1560	
1610 1620 1630 1640 GGTCAAAGTCATTTCTGGTCCATAGGGATGGTTTCATG 1640 ACCTCGCTCTCCCTGGACGTCCCTTCGAGCACAGCGTG 1680 GAGAAACAGAGAACTCCTCATGGAATTGAAGGGGGGCAC 1720 GCCACCAAAACAGTCGCTTGTGCTCTTGGTCAGGAGGT 1760 GAGGCCTCCATCATGCGTTGGCTCATGGAGGAGGT 1760 GAGGCCTCCATCATGCGTTGGCAGGAGCCATCGTGGTGGA 1800 1810 1820 1830 1840 TGTAGCCAGCAAAAACTGGCACACCTGAAA 1840 CCTATGGAAAATGGACAAACTGGCTCTGAAAGGCACAA 1880 CCTATGGCATGTGTACAGAAAAATTCTCGTTGCGCAAAAA 1920 TCCGGTGGAACATGGTACAGAAAAATTCTCGTTGCGAAAAA 1920 TCCGTTGGGAACTGGTCACGAAAAATTCCCATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCGTTGGGC 2040 GCTGGTGGAAAAGGAGCACAATCAGGCCCCTTCGGGA 2120 AACTCAAAGGTCCTGTCGAAGAGCAGAACACAGTACAA 2160 CCACCATTGGCACAGAAAACCTGGAACCCCCTTCGGGA 2120 AACTCCAACACTGGAAGACAGAAGCAGAACAACAAGAAGACACAACAACACAAGAGACACAACA	GAGTGGACTGAACACTGAAGCGTTTTACGTCATGACCGTG 1600	
GGGTCAAAGTCATTCTGGTCCATAGGGAGTGGTTTCATG 1640 ACCTGGCTCCCCTGGACGTCCCCTTCGAGCACAGCGTG 1680 GAGAAACAGAGACTCCTCATGGAATTTGAAGGGGCGCACC 1720 GCCACAAAACAGTCCGTTGTTGCTGTGGTCACAGGAAG 1760 GAGGCCTCCATCAGGCAGGACCCATCGTGGTGA 1800 1810 1820 1830 1840 TGTACTCAACGTCAGTGATTTAACATCAGGCCACCTGAAA 1840 TGTAGGCATGAAATGACTAGAGCCACCTGAAA 1880 CCTATAGCATACAGAAAAATTCTCTTAAAATCAGCAGACAA 1880 CCTATAGCATAGCATCAGAAAAATTCCGTTGCAAAAGCACAA 1880 CCTATAGCATGGTACAGAAAAATTCCGTTGCAAAAATTCCGATAGA 1920 TCCGGTGGACACTGGTCACGGAACAATTCCGATTGAACTC 1960 TCCTACTCTGGGAGTGATGGCCCCTGCAAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGGCG 2040 GCTGGTGACAGTGAACCCCTTCGTCACGGACCCCCCTTCGGAG 2120 ACTCCTAAAGGTGCTGGAAGACGACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAACCAGATCAA 2160 CCACCATTGGCACAAAGACTGGAACCCCCCTTCGGAG 2120 ACTCCTACTTGAAGAGAGGAAGACAGACAGATCAA 2160 CCACCATTGGCACAAAGACTGGAACCCCCCTTTGGGGGAGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAAGCTCCAAAGACCGGAGCT 2280 CTTCAACTCCATAGGAAGACCGGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAACTCCATAGGAAGACCGGTTCGGACC 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAAGACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGAAGACCGTTCACCAAGTTTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTCTGGATGACCAAGTTTGGT 2320 GGTGCCTTCAAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTTCTTGGGCTCTATTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTCTCTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTTCTTAGCCACAAGTTTGGTACAAGAGACGAGCT 2320 2410 2420 2430 2440 LAACCCCAAGGAGTACAATTGCTTTTGGCACAAAGAAGAAGAGCT 2520 CACAACTCCGGAACAACTCTTTTAGCGACCAATTGGCACAAACTCTTTAGCCACAAACTCTTTAGCAACAACTTTTAGCAACAACTTTTAGCAACAACTTGGCACAAACTCTTTAGCAACAACTTGGCACAAACTCTTTAGCAACAACTTTTAGCAACAACTTGGCACAACTCTTTAGCAACAACTAGCTTCATATTTTAGCAACCAAACTAGCCTTCTTAGCC CAACAGGAGAGTGTACCTAACTTTTAGCAACAAACTTGGCACAAACTCTCATTTTAGCAACAACTTGGCACAAACTCTTTAGCAACAACTACTTAGCAACAACTAGAACAACAACTCCTTCTTAGCCAAACAACTACTTAATTTTAGAACACCTCTTTTACCC 2440 CAACTCCGAACAACTCTTCATATTTTAGAACACCTCTCAT 2560	1.610	
ACCTGGTCTCCCCTGGACGTCCCCTTGGAGCACAGCGTG 1680 GAGAAACAGACAACTCCTCATGGAATTTGAAGGGGCGAC 1720 GCCACAAAACAGTCCGTTGTTGCTCTTGGATCACAGGAAG 1760 GAGGCCTCCATCATGCGTTGGCAGGAGACCCACCGTGGTGGA 1800 1810 1820 1830 1840 1810 1820 1830 1840 GTACTCAAGCTCAGTGATGTAACATCAGGCCACCTGAAA 1840 GTGAGGCTGAAAAATGGCCACAAA 1880 CCTATGGCATGAAAATGCTCGTTCGCAAAAAAATTCCGTTCGCGAAAAA 1920 TCCGGTGGACACTGGTCACAAAAAATTCCGTTCGCGAAAAA 1920 TCCGGTGGACACTGGTCACAGAAAAATTCCGATTGCACACT 1960 TCCTACTCTGGGAGTGATGGCCCCTGCAAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGGCC 2080 AACTCAAAGGTGCTGGAACAGCTCCCGTTCGGAG 2120 ACTCCTACTCTGGGAGCACCCCTTCGGAG 2120 ACTCCAACTCTAGGAGCACCCCCTTCGGAG 2120 ACTCCACACTGTGGAACACCCCCTTCGGAG 2120 ACTCCACACTGTGGAAGACACCCCCTTCGGAG 2200 CCACCATTGGCACAAAGCTGGAACACCCCGTTGGGGCT 2240 TTTCCAACACCTTAGAAGACACGCTGGCCAAGGCC 2280 CCACCATTGGCACAAAGACTGCACAAGACTGGACCACCTTGGAGGGCT 2240 TTTCCACACACCTTTGAAGGAGCACCTCTAACAAAGCTTGGATCA 2360 CACACAGGACACACCCTTTGGGGAATTTCTTATCGAGGGGT 2400 2410 2420 2430 2440 1111111111111111111111111111111111		
ACCTCGCTCCCCTGGACGTCCCCTTCGAGCACAGCGTC 1680 GAGAAACAGAGAACTCCTCATGGAATTTGAAGGGGCGAC 1720 GCCACAAAACAGTCCCTTGTTGCTCTTGAGTCACAGGAAG 1760 GAGGCCTCCATCATGCGTTGGCAGGAGCCATCGTGGTGGA 1800 1810	GGGTCAAAGTCATTTCTGGTCCATAGGGAGTGGTTTCATC 1640	
GAGAAACAGAGACTCCTCATGGAATTTGAAGGGGCGCAC GCCACAAAACAGTCCGTTGTTGCTCTTGGGTCACAGGAAG GCCACCACAAACAGTCCGTTGTGCTCTTTGGGTCACAGGAAG GAGGCCTCCATCATGCGTTGGCAGGAGCCCACCTGAAA 1810 1820 1830 1840	ACCTCGCTCTCCCCTGGACGTCCCCTTCGAGCACAGCGTG 1680	
GCCACAAAACAGTCCGTTGTGCTCTTGGGTCACAGGAAG GAGGCCTCCATCATCGTTGGCAGGACCCATCGTGGTGGA 1800 1810	GAGAAACAGAGAACTCCTCATGGAATTTGAAGGGGCGCAC 1720	
GAGGCCTCCATCATGCGTTGGCAGGAGCCATCGTGGTGA 1800 1810 1820 1830 1840 TGTACTCAAGCTCAGTCATGTTAACATCAGGCCACCTGAAA 1840 TGTAGGCTGAAAATGGCAAAACTGGCTCTCAAAAGGCACAA 1880 CCTATGGCATGTACAGAAAAATTCTCGTTCGCGAAAAA 1920 TCCGGTGGACACTGGTCACGGAACAGTTGTCATTGAACTC 1960 TCCTACTCTGGGGATGATGGCCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGGCG 2080 GACTGGTGACAGTGAACCCCTTCGTCGCGAACACTTCCAGTGC 2080 AACTCCAAAAGGTGCTGGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGAGCACACCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGCACCACCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGCACGCTGGCAAGCCC 2200 2210 2220 2230 2240 TTTTCAACCACATTTGAAGGGAGCCCAAAGACTGGCACCT 2280 TGGGCGACACAACCTCTTTGGCGTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCCCTTCTTTTGGAGGGATCA 2360 CACAAGGCCTTAAGGAGAGACCCCTTCTTTTGGATCTACAAGGTTTTGGT 2320 GGTGCTTCAAAAGACTTCTTTGGGGGAATCTCTTTGGATCA 2360 CACAAGGGCTAATGGGTCCCTCTCTTTTGGAGGGGT 2400 2410 2420 2430 2440 LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	GCCACAAAACAGTCCGTTGTTGCTCTTGGGTCACAGGAAC 1760	
1810 1820 1830 1840 GTACTCAAGCTCAGTGATGTTAACATCAGGCCACCTGAAA 1840 TGTAGGCTGAAAATGGCACAAACTGGCTCTGAAAAGCACAAA 1880 CCTATGGCATGATACAGAAAAATTCTGTTCGCGAAAAAA 1920 TCCGGTGGACAACTGGTCACGGAACAATTCCGATTGAACTC 1960 TCCTACTCTGGGAGTGATGGCCCCTGCAAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCGTTGGGCG 2040 GCTGGTGACAGTGAACCCCCTTCGTGGCGAGACCCCCTTCGGAG 2120 ACTCCTACATGAAGAGCACCACCTTCGGAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAACACCCCCTTCGGAG 2120 ACTCCTACATCGTAGTGGAAGCACGACAGACCACCCTTCGGAG 2120 ACTCCTACATCGTAGTGGAAGCACGCTGGCAAAGCCCCCTTCGGAG 2120 CCACCATTGGCACAAAGCTGGAACCACCCCTTTGGAC 2120 TTTTCAACAACATTTGAAAGGAGCACAACTGGCAAGGC 2200 2210 2220 2230 2240 TTTTCAACAACACTTTGAAGGGAGCTCAAAGACTGGACGAC 2280 CTTCAACTCCATAGGAAGACCTGGCTTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCTGCTTATTGGAGGGGT 2300 CACAAGGGCTAATGGGTCCTCTTTGGGGAATCATCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTCTCTTGGATGGCT 2400 2410 2420 2430 2440 LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	GAGGCCTCCATCATGCGTTGGCAGGAGCCATCGTGGTGGA 1800	
GTACTCAAGCTCAGGACAAACTGGCCCTGAAAA 1840 TGTAGGCTGAAAATTGGCACAAACTGGCTCTGAAAAGGCACAA 1880 CCTATGGCATGGTACAGGAAAAATTCCGTTCGCGAAAAAA 1920 TCCGGTGGACACTGGTCACGGAACAATTTCCATTGAACTC 1960 TCCTACTCTGGGAGTGATGGCCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCCTCAATGACCACCCCGTTGGGCG 2040 GCTGGTGACACGTCAATGACACCCCCTTCGGGCG 2120 AACTCAAAGGTGCTGCTGGAGAGACAGCCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGCCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCCT 2240 TGGGCGACACACCCTTGGGAGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACTTTGGCTCTTAGCTC 2320 GGTGCCTTCAGAACACTCTTTGGGGAATGTCTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGAATGTCTTGGT 2320 CACAAGGGCTAAATGGGTGCCCTACTGCTCTGGATGGCT 2400 2410 2420 2430 2440 LAIL LAIL LAIL LAIL LAIL LAIL LAIL LAI	1010	
GTACTCAAGCTCAGTGATGTTAACATCAGGCCACCTGAAA 1840 TGTAGGCTGAAAATGGACAAAACTGGCTCTGAAAGGCACAA 1880 CCTATGGCATGTTACACGAAAAAATTCTCGTTCGCGAAAAAA 1920 TCCGGTGGACACTGGTCACAGAAAAATTCTCGTTCGCGAAAAAA 1920 TCCGTACTCTGGGAGTGATGGCCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 **TTTCCGTTGCGAGCCCTCAATGACATCCGATTGCCC 2080 AACTCAAAGGTGCTCCATCGTCGCGACATTCCAGTGC 2080 AACTCAAAGGTGCTCGAGAATGACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACCACCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAAGCAAGAATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 **TTTCCAACTCTGAAGGGAGCTCAAAGACTGGCAGCT 2280 CTTCAACACACTTGGAAGGAGCTCAAAGACTTTGGT 2320 GGTGCCTTCAACACCTTGGGGGAATTGCTTTTGGT 2320 GGTGCCTTCAAACACTTTGGAAGGACAGCTGTTTTGGT 2320 GGTGCCTTCAAACACTTTTGGGGGAATTGTCTTTGGAT 2360 CACAAGGGCTAATGGGTCCCTACTGGCTGTTTTGGT 2400 2410 2420 2430 2440 **TTTCAACAACTTCATTTGGCACCAAGAGTTTCGC 2440 ACAGGAGGTGTCCCAATTGTTTTGGCACCAAGTGTTTGCC 2440 ACAGGAGGTGTCCCTGTTTTTTGGCACCAAGAGACGC 2480 CCGATCAAGGAGCGCTCTCAATTCTTTGGCACCAAGAGACGC 2520 CAAAGGAGGTGCCCATCAACTTTTGGCACCAAGAGAGACGC 2520 CAAAGGAGGTGCCCATCAACTTTTGGCACCAAGAGACCC 2520 CAAAGGAGGTGCCCATCAACTTTTGGCACCAAGAGAAGACC 2520 CAAAGGAGGTGCCCATCAACTTTTGGCACAAGAAGAAGACC 2520 CAAAGGAGGTGCCCATCAACTTTTAGACAACTCTGAT 2560	1030 1040	
TGTAGGCTGAAAATTGGACAAACTTGGCTCTGAAAGGCACAA 1880 CCTATGGCATGTTACAGAAAAATTCTCGTTCGCGAAAAAA 1920 TCCGGTGGACACTGGTCACGGAACAGTTGTCATTGAACTC 1960 TCCTACTCTGGGAGTGGCCCCTGCAAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCCTCAATGACATGACCCCCGTTGGGCG 2040 GCTGGTGACAGTGACCCCCTTCGTCGGGACTTCCAGTGCC 2080 AACTCAAAGGTGAACCCCCTTCGTCGGACTCCAGTGCC 2080 AACTCAAAGGTGTGGAGAGGACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAACCGCTGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCT 2280 CTTCAACTCCATAGGAAGACCGTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGTTGGCTCTATTGGAGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTCCCTACTGCTCTGGATGGCCGT 2400 2410 2420 2430 2440 LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL		
TCCGTTGGCATGTCTCAGGAACAGTTGTCATTGACTC 1960 TCCTACTCTGGGAGTGGCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACACCCCGTTGGGCG 2040 GCTGGTGACAGTGACCCCCTTCGTGGCGG 2080 AACTCAAAGGTGACCCCCTTCGTCGGAACACCCCCTTCGGAG 2120 ACTCCTACATGACGTGGCAGAAGCAGGAACCCCCCTTCGGAG 2120 ACTCCTACATGGAGTGGAAGCACGCTGGGCAAGCC 2200 2210 2220 2230 2240 TTTCCACACACTTGAAGGAGACCTCAATGACCACGCTGGCC 2280 TGGGCGACACAGCCTGGAAGCACGCTGGCCAGCT 2280 CTTCAACTCTAGAAGACTGCAAAGACTGGCAAGCT 2280 CTTCAACTCCATAGGAAGACCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCTCTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGC 2400 2410 2420 2430 2440 LALLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL	TGTAGGCTGAAAATGGACAAACTGGCCTCTCAAACCCAGAAA 1840	
TCCGGTGGACACTGGTCACGGAACAGTTGTCATTGAACTC 1960 TCCTACTCTGGGAGTGATGGCCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGGCG 2040 GCTGGTGCACAGTGACATGACCCCCCGTTGGCG 2080 AACTCAAAGGTGCTGGTCGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGAGACACCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGGACACAGCCTGGGCTTTTGGCTCTATTGGAGGGT 2280 CTTCAACTCCATAGGAAGACCCCCTTTTGGCTCTATTGGAGGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGGCT 2400 2410 2420 2430 2440	CCTATGGCATGTGTACAGAAAATTCTCCTTTCCCCTTCCCCAAAAAGGCACAA 1880	
TCCTACTCTGGGAGTGATGGCCCCTGCAAAATTCCGATTG 2000 2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACCACCCGTTGGGCG 2040 GCTGGTGACAGTGACCCCTTCGTCGCGACTTCCAGTGCC 2080 AACTCAAAGGTGCTGGTCGAAGGAGACACCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGAGACACCCCCTTCGGAG 2120 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCT 2240 TGGGCGACACAGCCTTGGGCTTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGCTCACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCGTGTTCTTAGCGACCAATTGGCTTCTTAGCC 2440 ACAGGAGGTGCCCTCTCTTAGCGACCAATTGGCTTCTTAGCC 2440 CCGATCAAGGATGGCTCTGTTTTTTAGCGACCAATTGGCTT 2560 CAAAGTGCGGAGATGGTATCTTTAGCAAGAGAAGACT 2520 CAAGTGCGGAGATGGTATCTTTATTTTAGCAACAAGAGAACTCTGAT 2560	TCCGGTGGACACTGGTCACGGAACACTTCGCGAACAAA 1920	
2010 2020 2030 2040 TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGGCG 2040 GCTGGTGACAGTGAACCCCTTCGTCGCGACTTCCAGTGCC 2080 AACTCAAAGGTGCTGGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCT 2280 CTTCAACTCCATAGGAAGACTTTGGCTCTATTGGAGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCATTTTGCC 2440 ACAGGAGGTGTGCTCTTTAGCGACCAATGTGGCGC 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTTAATTTTAGAGACTCTGTT 2560	TCCTACTCTGGGAGTGATGGCCCCTCCAAAATTGAACTC 1960	
TTTCCGTTGCGAGCCTCAATGACATGACCCCCGTTGGCC 2040 GCTGGTGACAGTGAACCCCTTCGTCGCGACTTCCAGTGCC 2080 AACTCAAAAGGTGCTGGTCGAATGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACCAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACATTTGAAGGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGAACAACCTCTTGGAGCTCTATTGGAGGGT 2280 CTTCAACTCCATAGGAAGACTCGTTAGCTCTATTGGAGGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGT 2320 CACAAGGGCTAATGGGTCCTACTCGATGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAACAAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGGT 2560	0010	
TTTCCGTTGCGAGCCTCAATGACCTCCCGTTGGGCG 2040 GCTGGTGACAGTGAACCCCTTCGTCGCGACTTCCAGTGCC 2080 AACTCAAAGGTGCTGGTCGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGCCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATTCTTTGGATCA 2360 CACAAGGGCTAATGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440	2030	
AACTCAAAGGTGACCCCTTCGTCGCGACTTCCAGTGCC 2080 AACTCAAAGGTGCTGGTCGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGCACAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACCACAGCCTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGCTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCCCATCAACTTTGGCAAGAGAGAGCC 2520 CAAGTGCCGAGAATGGTATCTTCATATTTAGAGACTCTGAT 2560		
AACTCAAAGGTGCTGGTCGAGATGGAACCCCCCTTCGGAG 2120 ACTCCTACATCGTAGTTGGAAGGGGAGACAAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTTGGACTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCCGT 2400 2410 2420 2430 2440	GCTGGTGACACCCCCTTGGGCGC 2040	
ACTCCTACATCGTAGTTGGAAGGGGAGACAAGCAGATCAA 2160 CCACCATTGGCACAAAGCTGGAAGCACGCTGGGCAAGGCC 2200 2210 2220 2230 2240 TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCCT 2400 2410 2420 2430 2440	AACTCAAACCTCGTCGTCGCGACTTCCAGTGCC 2080	
2210 2220 2230 2240 TTTTCAACAACTTTGAAGGAAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACAAGCTGGGAAGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACTGCTCTATTGGATCA 2360 CACAAGGGCTAATGGTGCCCTACTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCTTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGCCCTACTTTTTTTTTTTTTTTTTTTTTTT	ACTCCTACATICCTACTTCGAGATGGAACCCCCCTTCGGAG 2120	•
2210 2220 2230 2240 TTTTCAACAACTTTGAAGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGAGCCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCGTTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	CCACCATTCCCACAAACGTCAACAAGCAGATCAA 2160	
TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGACCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560		
TTTTCAACAACTTTGAAGGAGCTCAAAGACTGGCAGCGT 2240 TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGAGCCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGAG		
TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280 CTTCAACTCCATAGGAAGAGCCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	TTTTCAACAACTTTGAAGGGAGCTCAAAGACTGGCAGCGT 2240	
CTTCAACTCCATAGGAAGAGCCGTTCACCAAGTGTTTGGT 2320 GGTGCCTTCAGAACACTCTTTGGGGGAATGTCTTGGATCA 2360 CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGGCGT 2400 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGACT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	TGGGCGACACAGCCTGGGACTTTGGCTCTATTGGAGGGGT 2280	
CACAAGGACCGATCAATTGCTCTTGGATCA 2360 2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCTTAGCGACCAATGTGGCCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGACT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	CTTCAACTCCATAGGAAGAGCCGTTCACCAAGTGTTTTGGT 2320	
2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	GGTGCCTTCAGAACACTCTTTGGGGGGAATGTCTTGGATCA 2360	
2410 2420 2430 2440 CAACGCACGAGACCGATCAATTGCTTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	CACAAGGGCTAATGGGTGCCCTACTGCTCTGGATGGGCGT 2400	
CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440 ACAGGAGGTGTCCTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	2410 2420 2430 2440	
ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	<u> </u>	
ACAGGAGGTGTGCTCGTGTTCTTAGCGACCAATGTGGGCG 2480 CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	CAACGCACGAGACCGATCAATTGCTTTGGCCTTCTTAGCC 2440	
CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520 CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	ACAGGAGGTGTGCTCGTTCTTAGCGACCAATGTGGGCG 2480	
CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	CCGATCAAGGATGCGCCATCAACTTTGGCAAGAGAGAGCT 2520	
GACTGGCTGAACAAGTACTCATACTATCCAGAAGATCCTG 2600	CAAGTGCGGAGATGGTATCTTCATATTTAGAGACTCTGAT 2560	
	GACTGGCTGAACAAGTACTCATACTATCCAGAAGATCCTG 2600	

2610 2620 2630 264	4 0
TGAAGCTTGCATCAATAGTGAAAGCCTCTTTTGAAGAAGG GAAGTGTGGCCTAAATTCAGTTGACTCCCTTGAGCATGAG ATGTGGAGAAGCAGGGCAGATGAGATCAATGCCATTTTTG AGGAAAACGAGGTGGACATTTCTGTTGTCGTGCAGGATCC AAAGAATGTTTACCAGAGAGGAACTCATCCATTTTCCAGA	2680 2720 2760
2810 2820 2830 284	10
ATTCGGGATGGTCTGCAGTATGGTTGGAAGACTTGGGGTA AGAACCTTGTGTTCTCCCCAGGGAGGAAGAATGGAAGCTT CATCATAGATGGAAAGTCCAGGAAAGAATGCCCGTTTTCA AACCGGGTCTGGAATTCTTTCCAGATAGAGGAGTTTGGGA CGGGAGTGTTCACCACACGCGTGTACATGGACGCAGTCTT	2880 2920 2960 3000
3010 3020 3030 304	10
TGAATACACCATAGACTGCGATGGATCTATCTTGGGTGCA GCGGTGAACGGAAAAAAGAGTGCCCATGGCTCTCCAACAT TTTGGATGGGAAGTCATGAAGTAAATGGGACATGGATGAT CCACACCTTGGAGGCATTAGATTACAAGGAGTGTGAGTGG CCACTGACACATACGATTGGAACATCAGTTGAAGAGAGTG	3080 3120 3160
3210 3220 3230 324	0
AAATGTTCATGCCGAGATCAATCGGAGGCCCAGTTAGCTC TCACAATCATATCCCTGGATACAAGGTTCAGACGAACGGA CCTTGGATGCAGGTACCACTAGAAGTGAAGAGAGAAGCTT GCCCAGGGACTAGCGTGATCATTGATGGCAACTGTGATGG ACGGGGAAAATCAACCAGATCCACCACGGATAGCGGGAAA	3280 3320 3360
3410 3420 3430 344	
GTTATTCCTGAATGGTGTTGCCGCTCCTGCACAATGCCGCCTGTGAGCTTCCATGGTAGTGATGGTTTGGTATCCCATGGAAATTAGGCCAAGGAAAAACGCATGAAAGCCATCTGGTGCGCTCCTGGTTACAGCTGGAGAAATACATGCTGTCCCTTTTGGTTTGGTTGG	3480 3520 3560
3610 3620 3630 364	0
AAGGAAAAGACAGGGACCAAAGCAAATGTTGGTTGGAGGA GTAGTGCTCTTGGGAGCAATGCTGGTCGGGCAAGTAACTC TCCTTGATTTGCTGAAACTCACAGTGGCTGTGGGATTGCA TTTCCATGAGATGAACAATGGAGGAGACGCCATGTATATG GCGTTGATTGCTGCCTTTTCAATCAGACCAGGGCTGCTCA	3680 3720 3760
3810 3820 3830 384	
TCGGCTTTGGGCTCAGGACCCTATGGAGCCCTCGGGAACG CCTTGTGCTGACCCTAGGAGCAGCCATGGTGGAGATTGCC TTGGGTGGCGTGATGGGCGGCCTGTGGAAGTATCTAAATG CAGTTTCTCTCTGCATCCTGACAATAAATGCTGTTGCTTC TAGGAAAGCATCAAATACCATCTTGCCCCTCATGGCTCTG	3880 3920 3960

	rage 4
4010 4020 4030 4040	
TTGACACCTCTCACACTCACCCTCACCTCACCTCACCTC	
TTGACACCTGTCACTATGGCTGAGGTGAGACTTGCCGCAA 4040	
TGTTCTTTGTGCCATGGTTATCATAGGGGTCCTTCACCA 4080	
GAATTTCAAGGACACCTCCATGCAGAAGACTATACCTCTG 4120	
GTGGCCCTCACACTCTTACCTGGGCTTGACACAAC 4160	
CTTTTTTGGGCCTGTGTGCATTTCTGGCAACCCGCATATT 4200	•
4210 4220 4230 4240	
TGGGCGAAGGAGTATCCCAGTGAATGAGGCACTCGCAGCA 4240	
GCTGGTCTAGTGGGAGTGCTGGCAGGACTGCCTTTTCAGG 4280	
AGATGGAGAACTTCCTTGGTCCGATTGCAGTTGGAGGACT 4320	
CCTGATGATGCTGGTTAGCGTGGGAGGGTGGATGGG 4360	
CTAGAGCTCAAGAAGCTTGGTGAAGTTTCATGGGAAGAGG 4400	
4410	
4410 4420 4430 4440	
AGGCGGAGATCAGCGGGAGTTCCGCCCGCTATGATGTGGC 4440	
ACTCAGTGAACAAGGGGAGTTCAAGCTGCTTTCTGAAGAG 4480	
AAAGTGCCATGGGACCAGGTTGTGATGACCTCGCTGGCCT 4520	
TGGTTGGGGCTGCCCTCCATCCATTTGCTCTTCTGCTGGT 4560	
CCTTGCTGGGTGGCTGTTTCATGTCAGGGGGGGGGGGAGA 4600	
4610 4620 4630 4640	
real control of the c	
AGTGGGGATGTCTTGTGGGATATTCCCACTCCTAAGATCA 4640	
TCGAGGAATGTGAACATCTGGAGGATGGGATTTATGGCAT 4680	
ATTCCAGTCAACCTTCTTGGGGGCCTCCCAGCGAGGAGTG 4720	
GGAGTGGCACAGGGAGGGGTGTTCCACACAATGTGGCATG 4760	
TCACAAGAGGGGCTTTCCTTGTCAGGAATGGCAAGAAGTT 4800	
4810 4820 4830 4840	
GATTCCATCTTGGGCTTCAGTAAAGGAAGACCTTGTCGCC 4840	
PATGGTGGCTCATGGAAGTTGGAAGGCAGATGGGATGGAG 4880	
AGGAAGAGGTCCAGTTGATCGCGGCTGTTCCAGGAAAGAA 4920	
CGTGGTCAACGTCCAGACAAAACCGAGCTTGTTCAAAGTG 4960	
AGGAATGGGGGAGAAATCGGGGCTGTCGCTCTTGACTATC 5000	
5010 5020 5030 5040	
<u> </u>	
CGAGTGGCACTTCAGGATCTCCTATTGTTAACAGGAACGG 5040	
AGAGGTGATTGGGCTGTACGGCAATGGCATCCTTGTCGGT 5080	
GACAACTCCTTCGTGTCCGCCATATCCCAGACTGAGGTGA 5120	
AGGAAGAAGGAAAGGAGCTCCAAGAGATCCCGACAAT 5160	
GCTAAAGAAAGGAATGACAACTGTCCTTGATTTTCATCCT 5200	
5210 5220 5230 5240	
GGAGCTGGGAAGACAAGACGTTTCCTCCCACAGATCTTGG 5240	
CCGAGTGCGCACGGAGACGCTTGCGCACTCTTGTGTTGGC 5280	
CCCACCAGGGTTGTTCTTTCTGAAATGAAGGAGGCTTTT 5320	
LACGGCCTGGACGTGAAATTCCACACACAGGCTTTTTCCG 5360	
CTCACGGCAGCGGAGAGAGTCATTGATGCCATGTGCCA 5400	

						
5410	5420	5430	54	40		
TGCCACCCTAACTTA GTTAACTGGGAAGTG TGGATCCAGCTAGCA CAGAGCTAGGGCAAA	SATCATTATGG ATAGCCGCTAG	ATGAAGCCC. AGGTTGGGC.	ATTTTT AGCGCA	5480 5520		
GCCACACCGCCTGGG 5610	SACTAGTGATG 5620	AATTTCCAC	ATTCAA 564	5600		
ATGGTGAAATAGAAG	ليتبليبنا	<u></u>	لبيبيا			
GCCCTGGAACACAGG AGGCCCACGGCATGG ATGTCATGGCTGCCT GGTGGTCCTGAACAG	GCATGACTGG TTCCTTCCAT CTTTGCGTAA	ATCCTGGCT(CCATCAGAG(GGCTGGAAA(GACAAA CTGCAA GAGTGT	5680 5720 5760		
5810 	5820	5830 	584 لىيىا			
ACGATAAAGCAGAAG ACATAGCTGAAATGG GCTGGATTGCAGGAC GAAGGGAGGAAGGTG CCGCATCCTCTGCTG	GAGCCAACCT GGCTTTTAAG GCAATAAAAG CTCAAAGGAG	TTGCGTGGAC CCTGTGCTTC GGCCACTTCC	CGAGT TGGAT	5880 5920 5960		
6010 	6020 	6030 	604 L.L.L		_	
AAATCCCAACAGAGA CCTACAAGTGAAAAT AGGCCTCAATGCTCT AATGGTCGCCCCACT CCAGTTTCCCCTGGT	AATGCCCACCA TGGACAACATO CTATGGCGTTO	ACGTCTGCTG GGAGGTGAGG GAAGGAACTA	GTTGG GGTGG AAACA	6080 6120		
6210	6220	6230	624			
GGAAAGTCTTCAGAG. CGTTTGGCTTTCGTG ACGAATGATCGTAAG ATGAGATCTTGAATG. GGCTCCTGGAGGAGC.	GCAAGTGGCCA TGGTGTTTTGA ACAGCGGTGAA	AGGCTGGTT AGGCCCTGA ACAGTGAAG	TGAAG GGAAC TGCAG	6280 6320 6360		
6410	6420 	6430	644	0		
TGTGATGAAAGGGTG' AATTTATTAAGTTTGG AGTGCTAGTTGTGCTG AAAAAAGGTGGAGAGG TCCACTCTGAGGAAGG	FCATCTGACCA CTGAAGGTAGG GAGTGAACTCC GCAATGGATAC	GAGTGCGCT GAGGGGAGCT CTGATTTCC	GTCTG GCTGA TGGCT GTTCC	6480 6520		
6610 			664			·
ATCAATGATGCCTGA(ATACTGGCTGGACTA(ICATGTCTCCCAAAG(GGGCACAATGGCCGG(GGCGTCAAACCCACT(CTGACATCGGG GCATCAGTAGA CTGTGGATATC	AATGGTCAT ATGTCTATG TCATGTTCC	CTTTT GCGAT	6680 6720		
	• •	2		3000		

	· age o
6810 6820 6830 6840	
TCTTTGTCCTGATGGTGGTTGTGATCCCCGAGCCAGGGCA 6840	
ACAAAGGTCCATCCAAGACAACCAAGTGGCATACCTCATT 6880	
ATTGGCATCCTGACGCTGGTTTCAGCGGTGGCAGCCAACG 6920	
AGCTAGGCATGCTGGAGAAAACCAAAGAGGACCTCTTTGG 6960	
GAAGAAGAACTTAATTCCATCTAGTGCTTCACCCTGGAGT 7000	
7010 7020 7030 7040	
TGGCCGGATCTTGACCTGAAGCCAGGAGCTGCCTGGACAG 7040	
TGTACGTTGGCATTGTTACAATGCTCTCTCCAATGTTGCA 7080	
CCACTGGATCAAAGTCGAATATGGCAACCTGTCTCTGTCT 7120	
GGAATAGCCCAGTCAGCCTCAGTCCTTTCTTTCATGGACA 7160	
AGGGGATACCATTCATGAAGATGAATATCTCGGTCATAAT 7200	
7210 7220 7230 7240	
GCTGCTGGTCAGTGGCTGGAATTCAATAACAGTGATGCCT 7240	
CTGCTCTGTGGCATAGGGTGCGCCATGCTCCACTGGTCTC 7280	
CATTTTACCTGGAATCAAAGCGCAGCAGTCAAAGCTTGC 7320	
ACAGAGAAGGGTGTTCCATGGCGTTGCCAAGAACCCTGTG 7360	
STTGATGGGAATCCAACAGTTGACATTGAGGAAGCTCCTG 7400	
7410 7420 7430 7440	
<u> </u>	
AAATGCCTGCCCTTTATGAGAAGAAACTGGCTCTATATCT 7440	
CCTTCTTGCTCTCAGCCTAGCTTCTGTTGCCATGTGCAGA 7480	
ACGCCCTTTTCATTGGCTGAAGGCATTGTCCTAGCATCAG 7520	
CTGCCTTAGGGCCGCTCATAGAGGGAAACACCAGCCTTCT 7560	
TTGGAATGGACCCATGGCTGTCTCCATGACAGGAGTCATG 7600	
7610 7620 7630 7640	
AGGGGGAATCACTATGCTTTTGTGGGAGTCATGTACAATC 7640	
ATGGAAGATGAAAACTGGACGCCGGGGGGGGGGCGCGAATGG 7680	
AAAAACTTTGGGTGAAGTCTGGAAGAGGGAACTGAATCTG 7720	
TGGACAAGCGACAGTTTGAGTTGTATAAAAGGACCGACA 7760	
TGTGGAGGTGGATCGTGATACGGCACGCAGGCATTTGGC 7800	
7810 7820 7830 7840	
CCAACCCAACCCAACCAACAACAACAACAACAACAACAA	
CGAAGGGAAGGTGGACACCGGGGTGGCGGTCTCCAGGGGG 7840	
ACCGCAAAGTTAAGGTGGTTCCATGAGCGTGGCTATGTCA 7880	
AGCTGGAAGGTAGGGTGATTGACCTGGGGTGTGGCCGCGG 7920 AGGCTGGTGTTACTACGCTGCTGCGCAAAAGGAAGTGAGT 7960	
GGGTCAAAGGATTTACTCTTGGAAGAGACGCCATGAGA 8000	•
0010	
8010 8020 8030 8040	
ACCCATGAATGTGCAAAGTCTGGGATGGAACATCATCAC 8040 CTTCAAGGACAAAACTGATATCCACCGCCTAGAACCAGTG 8080	
AATGTGACACCCTTTTGTGTGACATTGGAGAGTCATCAT 8120	
CGTCATCGGTCACAGAGGGGGGAAAGGACCGTGAGAGTTCT 8160	
GATACTGTAGAAAAATGGCTGGCTTGTGGGGTTGACAAC 8200	
SECTION AND ADDITIONAL PROPERTY OF A SECTION AND A SECTION AND ADDITIONAL PROPERTY OF A SECTION ADDITIONAL PROPERTY OF A SECTION ADDITIONAL PROPERTY AND ADDITIONAL PROPERTY OF A SECTION ADDITIONAL PROPERTY OF A SECTION ADDITIONAL PROPERTY ADDITIONAL PROPERTY AND ADDITIONAL PROPERTY AN	

				rage /
8210	8220	8230	8240	
TO CONCERN SERVICE			Leed	
TTCTGTGTGAAGGT	GTTAGCTCCA	TACATGCCAG	ATGTTC 8240	
TTGAGAAACTGGAA	TTGCTCCAAA	GGAGGTTTGG	CGGAAC 8280	
AGTGATCAGGAACC	CTCTCTCCAG	GAATTCCACT	CATGAA 8320	
ATGTACTACGTGTC	TGGAGCCCGC	AGCAATGTCA	CATTTA 8360	
CTGTGAACCAAACA	TCCCGCCTCC	TGATGAGGAG.	AATGAG 8400	
8410	8420	8430	8440	
	ببيلينيا		L	
GCGTCCAACTGGAA	AAGTGACCCT	GGAGGCTGAC	GTCATC 8440	
CTCCCAATTGGGAC	ACGCAGTGTT	GAGACAGACA	AGGGAC 8480	
CCCTGGACAAAGAG	GCCATAGAAG	AAAGGGTTGA	GAGGAT 8520	
AAAATCTGAGTACA	TGACCTCTTG	GTTTTATGAC	AATGAC 8560	
AACCCCTACAGGAC	CTGGCACTAC	TGTGGCTCCT	ATGTCA 8600	
8610	8620	8630	8640	
		11111111111111111111111111111111111111		
CAAAAACCTCCGGA	AGTGCGGCGA	GCATGGTAAA'	FGGTGT 8640	
TATTAAAATTCTGA	CATATCCATG	GGACAGGATA	GAGGAG 8680	
GTCACAAGAATGGC.	AATGACTGAC	ACAACCCCTT	TTGGAC 8720	
AGCAAAGAGTGTTT.	AAAGAAAAAG	TTGACACCAG	AGCAAA 8760	
GGATCCACCAGCGG	GAACTAGGAA	GATCATGAAA	STTGTC 8800	
8810	8820	8830		
			8840	
AACAGGTGGCTGTT	CCGCCACCTG	GCCAGAGAAA	ACAACC 8840	
CCAGACTGTGCACA	AAGGAAGAAT	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ACTICAC 9990	
AAGTCATGCAGCCA'	TTGGAGCTTA	CCTCCD D CD D	777C77 0000	
CAGTGGAAGACTGC	CAATGAGGCT	CTCCAACACAC CTCCAACACCC	CAAGAA 0920	
TCTGGGAACTGGTG	SATGAAGAAA	COADANTO A CO	CAACA 0000	
9010				
9010 	9020 Liiiliii	9030 L	9040	
AGGCAGGTGTCGGA			CCDDD 0040	
AGAGAGAAGAAGCT		CCCARACATGATG	GGGAAA 9040	
GCCGTGCCATATGG	TATATETECC	TCCCACCCCC	NGGGAA 9080	
TGAGTTTGAGGCCC	PGGGATTCCT/	1	STATCT 9120	
GCTTCCAGGGAAAA	TTCAGGACCA	CACTOCA ACC	ATTGG 9160	
			SCATTG 9200	
9210	9220	9230 LL	9240	
GCTTACAATACCTAG	SORIRIGIGA CARROTACO	CAGAGACCTO	GGCTGC 9240	
AATGGATGGTGGTG TGGGACACGCCCAT	SALICIACECO SACACACOCA	GATGACACCO	GCTGGA 9280	
TGGGACACGCGCAT(LACAGAGGCA	SACCTTGATGA	TGAAC 9320	
AGGAGATCTTGAAC	CCA A A MCA C	JACATCACAAA	AAACT 9360	
GGCACAAGCAGTGA?		ATACAAGAACA	AAGTG 9400	
9410	9420	9430	9440	
GTGAAACTCTTCACA				·
GTGAAAGTGTTGAGA	ACCAGCCCCA	GAGGGAAAGC	CTACA 9440	
TGGATGTCATAAGT(GACGAGACC	AGAGAGGATCC	GGGCA 9480	
GGTAGTGACTTATG(TCTGAACAC	CATCACCAACT	TGAAA 9520	
GTCCAATTGATCAGA	ATGGCAGAA(GCAGAGATGGT	GATAC 9560	
ATCACCAACATGTT	CAAGATTGTG	ATGAATCAGTT	CTGAC 9600	

	rage o
9610 9620 9630 9640	
CAGGCTGGAGGCATGAGCACGGATGTGACAGA 9640	
CTGAAGAGGATGGCGGTGAGTGGAGACGACTGTGTGGTCC 9680	
GGCCCATCGATGACAGGTTCGGCCTGGCCCTGTCCCATCT 9720	
CAACGCCATGTCCAAGGTTAGAAAGGACATATCTGAATGG 9760	
CAGCCATCAAAAGGGTGGAATGATTGGGAGAATGTGCCCT 9800	
9810 9820 9830 9840	
TCTGTTCCCACCACTTCCATGAACTACAGCTGAAGGATGG 9840	
CAGGAGGATTGTGGTGCCTTGCCGAGAACAGGACGAGCTC 9880	
ATTGGGAGAGGGTGTCTCCAGGAAACGGCTGGATGA 9920	
TCAAGGAAACAGCTTGCCTCAGCAAAGCCTATGCCAACAT 9960	
GTGGTCACTGATGTATTTCACAAAAGGGACATGAGGCTA 10000	

10010 10020 10030 10040	
CTGTCATTGGCTGTTTCCTCAGCTGTTCCCACCTCATGGG 10040	
TTCCACAAGGACGCACATGGTCGATTCATGGGAAAGG 10040	
GGAGTGGATGACCACGGAAGACATGCTTGAGGTGTGGAAC 10120	
AGAGTATGGATAACCAACACCCACATGCAGGACAAGA 10160	
CAATGGTGAAAAATGGAGAGATGTCCCTTATCTAACCAA 10200	
10010 10000	
10210 10220 10230 10240	
GAGACAAGACAAGCTGTGCGGATCACTGATTGGAATGACC 10240	
AATAGGGCCACCTGGGCCTCCCACATCCATTTAGTCATCC 10240	
ATCGTATCCGAACGCTGATTGGACAGGAGAAATACACTGA 10320	
CTACCTAACAGTCATGGACAGGTATTCTGTGGATGCTGAC 10360	
CTGCAACTGGGTGAGCTTATCTGAAACACCATCTAACAGG 10400	
40.00	
10410 10420 10430 10440	
NATA ACCOCCATA CARACTER CARACT	
CCACAACCTGAAACCGGGATATAAACCACGGCTGGAGAAC 10440	
CGGGCTCCGCACTTAAAATGAAACAGAAACCGGGATAAAA 10520	
ACTACGGATGGAGAACCGGACTCCACACATTGAGACAGAA 10560	
GAAGTTGTCAGCCCAGAACCCCACACGAGTTTTGCCACTG 10600	
10610 10620 10630 10640	
CTA A CCTCTCA CCCA CTCCA CCCA CTCCA CCCA CTCCA CCCA CTCCA CCCA CTCCA CTCCA CCCA CTCCA CTCA CTCCA CTCA CTCCA CTCCA CTCCA CTCCA CTCA CTCCA CTCCA CTCCA CTCCA CTCCA CTCCA CTCCA CTCA CTCCA CTCCA CT	
CTAAGCTGTGAGGCAGTGCAGGCTGGGACAGCCGACCTCC 10640	
AGGTTGCGAAAAACCTGGTTTCTGGGACCTCCCACCCCAG 10680	
AGTAAAAAGAACGGAGCCTCCGCTACCACCCTCCCACGTG 10720	
GTGGTAGAAAGACGGGGTCTAGAGGTTAGAGGAGACCCTC 10760	
CAGGGAACAATAGTGGGACCATATTGACGCCAGGGAAAG 10800	
10810 10820 10830 10840	
ACCCCA CHOOSE OF THE COLUMN AND ACCCCACA CHOOSE OF THE COLUMN AND ACCCCACA CHOOSE OF THE COLUM	
ACCGGAGTGGTTCTCTGCTTTTCCTCCAGAGGTCTGTGAG 10840	•
CACAGTTTGCTCAAGAATAAGCAGACCTTTGGATGACAAA 10880	
CACAAAACCACT 10892	

10 20 30 40
MSGRKAQGKTLGVNMVRRGVRSLSNKIKQKTKQIGNRPGP 40
SRGVQGFIFFFLFNILTGKKITAHLKRLWKMLDPRQGLAV 80
LRKVKRVVASLMRGLSSRKRRSHDVLTVQFLILGMLLMTG 120
GMKLSNFQGKLLMTINNTDIADVIVIPTSKGENRCWVRAI 160
DVGYMCEDTITYECPKLTMGNDPEDVDCWCDNQEVYVQYG 200
210 220 230 240
<u></u>
RCTRTRHSKRSRRSVSVQTHGESSLVNKKEAWLDSTKATR 240
YLMKTENWIIRNPGYAFLAAVLGWMLGSNNGQRVVFTILL 280
LLVAPAYSFNCLGMGNRDFIEGASGATWVDLVLEGDSCLT 320
IMANDKPTLDVRMINIEASQLAEVRSYCYHASVTDISTVA 360
RCPTTGEAHNEKRADSSYVCKQGFTDRGWGNGCGFFGKGS 400
410 420 430 440
TDTCAVECCEVATCDETODENTVVVVCT DVVCTTTVVCTTTVV
IDTCAKFSCTSKAIGRTIQPENIKYKVGIFVHGTTTSENH 440
GNYSAQVGASQAAKFTVTPNAPSVALKLGDYGEVTLDCEP 480
RSGLNTEAFYVMTVGSKSFLVHREWFHDLALPWTSPSSTA 520
WRNRELLMEFEGAHATKQSVVALGSQEGGLHHALAGAIVV 560
EYSSSVMLTSGHLKCRLKMDKLALKGTTYGMCTEKFSFAK 600
610 620 630 640
<u> </u>
NPVDTGHGTVVIELSYSGSDGPCKIPIVSVASLNDMTPVG 640
RLVTVNPFVATSSANSKVLVEMEPPFGDSYIVVGRGDKQI 680
NHHWHKAGSTLGKAFSTTLKGAQRLAALGDTAWDFGSIGG 720
VFNSIGRAVHQVFGGAFRTLFGGMSWITQGLMGALLLWMG 760
VNARDRSIALAFLATGGVLVFLATNVGADQGCAINFGKRE 800
810 820 830 840
LKCGDGIFIFRDSDDWLNKYSYYPEDPVKLASIVKASFEE 840
GKCGLNSVDSLEHEMWRSRADEINAIFEENEVDISVVVQD 880
PKNVYQRGTHPFSRIRDGLQYGWKTWGKNLVFSPGRKNGS 920
FIIDGKSRKECPFSNRVWNSFQIEEFGTGVFTTRVYMDAV 960
FEYTIDCDGSILGAAVNGKKSAHGSPTFWMGSHEVNGTWM 1000
1010 1020 1030 1040
IHTLEALDYKECEWPLTHTIGTSVEESEMFMPRSIGGPVS 1040
SHNHIPGYKVQTNGPWMQVPLEVKREACPGTSVIIDGNCD 1080
GRGKSTRSTTDSGKVIPEWCCRSCTMPPVSFHGSDGCWYP 1120
MEIRPRKTHESHLVRSWVTAGEIHAVPFGLVSMMIAMEVV 1160

1210 1220 1230 1240
HFHEMNNGGDAMYMALIAAFSIRPGLLIGFGLRTLWSPRE 1240
RLVLTLGAAMVEIALGGVMGGLWKYLNAVSLCILTINAVA 1280
SRKASNTILPLMALLTPVTMAEVRLAAMFFCAMVIIGVLH 1320
QNFKDTSMQKTIPLVALTLTSYLGLTQPFLGLCAFLATRI 1360
FGRRSIPVNEALAAAGLVGVLAGLAFQEMENFLGPIAVGG 1400
LLMMLVSVAGRVDGLELKKLGEVSWEEEAEISGSSARYDV 1440
ALSEQGEFKLLSEEKVPWDQVVMTSLALVGAALHPFALLL 1480
VLAGWLFHVRGARRSGDVLWDIPTPKIIEECEHLEDGIYG 1520
IFQSTFLGASQRGVGVAQGGVFHTMWHVTRGAFLVRNGKK 1560
LIPSWASVKEDLVAYGGSWKLEGRWDGEEEVQLIAAVPGK 1600
1610 1620 1630 1640
NVVNVQTKPSLFKVRNGGEIGAVALDYPSGTSGSPIVNRN 1640
GEVIGLYGNGILVGDNSFVSAISQTEVKEEGKEELQEIPT 1680
MLKKGMTTVLDFHPGAGKTRRFLPQILAECARRRLRTLVL 1720
APTRVVLSEMKEAFHGLDVKFHTQAFSAHGSGREVIDAMC 1760
HATLTYRMLEPTRVVNWEVIIMDEAHFLDPASIAARGWAA 1800
1810 1820 1830 1840
<u> </u>
HRARANESATILMTATPPGTSDEFPHSNGEIEDVOTDIPS 1840
EPWNTGHDWILADKRPTAWFLPSIRAANVMAASLRKAGKS 1880
VVVLNRKTFEREYPTIKQKKPDFILATDIAEMGANLCVER 1920
VLDCRTAFKPVLVDEGRKVAIKGPLRISASSAAQRRGRIG 1960
RNPNRDGDSYYYSEPTSENNAHHVCWLEASMLLDNMEVRG 2000
2010 2020 2030 2040
CMART VOLTAGE CONTRACTOR CONTRACT
GMVAPLYGVEGTKTPVSPGEMRLRDDQRKVFRELVRNCDL 2040
PVWLSWQVAKAGLKTNDRKWCFEGPEHEILNDSGETVKC 2080
RAPGGAKKPLRPRWCDERVSSDQSALSEFIKFAEGRRGAA 2120
EVLVVLSELPDFLAKKGGEAMDTISVFLHSEEGSRAYRNA 2160
LSMMPEAMTIVMLFILAGLLTSGMVIFFMSPKGISRMSMA 2200
2210 2220 2230 2240
MGTMAGCGYLMFLGGVKPTHISYVMLIFFVLMVVVIPEPG 2240
QQRSIQDNQVAYLIIGILTLVSAVAANELGMLEKTKEDLF 2280
GKKNLIPSSASPWSWPDLDLKPGAAWTVYVGIVTMLSPML 2320
HHWIKVEYGNLSLSGIAQSASVLSFMDKGIPFMKMNISVI 2360
MLLVSGWNSITVMPLLCGIGCAMLHWSLILPGIKAQQSKL 2400
2410 2420 2430 2440
AQRRVFHGVAKNPVVDGNPTVDIEEAPEMPALYEKKLALY 2440
LLLALSLASVAMCRTPFSLAEGIVLASAALGPLIEGNTSL 2480
LWNGPMAVSMTGVMRGNHYAFVGVMYNLWKMKTGRRGSAN 2520
GKTLGEVWKRELNLLDKRQFELYKRTDIVEVDRDTARRHL 2560
AEGKVDTGVAVSRGTAKLRWFHERGYVKLEGRVIDLGCGR 2600

		·			
2610	2620 	2630	2640		
GGWCYYAAAQKEVSGVKG TFKDKTDIHRLEPVKCDT LDTVEKWLACGVDNFCVK TVIRNPLSRNSTHEMYYV RRPTGKVTLEADVILPIG	TLLCDIGESS (VLAPYMPDV /SGARSNVTF	SSSVTEGERT LEKLELLQRI TVNQTSRLLN	TVRV 2680 RFGG 2720 MRRM 2760		
2810	2820 	2830	2840		
IKSEYMTSWFYDNDNPYR VIKILTYPWDRIEEVTRM KDPPAGTRKIMKVVNRWL RSHAAIGAYLEEQEQWKT QGRCRTCVYNMMGKREKK	IAMTDTTPFG FRHLAREKN CANEAVQDPK	QQRVFKEKVI PRLCTKEEFI FWELVDEER!	TRA 2880 TAKV 2920 KLHQ 2960		
	3020 	3030	3040		
LEFEALGFLNEDHWASRE AMDGGGFYADDTAGWDTR LAQAVMEMTYKNKVVKVL QVVTYALNTITNLKVQLI TRLEAWLTEHGCDRLKRM	RITEADLDDE LRPAPGGKAY LRMAEAEMVI	QEILNYMSPH MDVISRRDQF HHQHVQDCDE	HKK 3080 RGSG 3120 CSVL 3160		
3210	3220 	3230	3240		
LNAMSKVRKDISEWQPSK GRRIVVPCREQDELIGRG MWSLMYFHKRDMRLLSLA GEWMTTEDMLEVWNRVWI KRQDKLCGSLIGMTNRAT	RVSPGNGWM VSSAVPTSW TNNPHMQDK	IKETACLSKA VPQGRTTWSI TMVKKWRDVE	YAN 3280 HGK 3320 PYLT 3360		
	3420 	3430	3440		